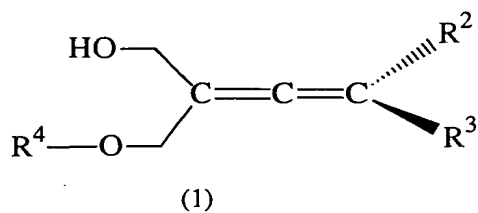
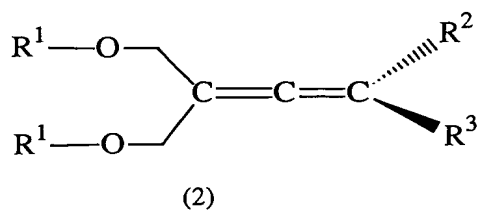


ABSTRACT

The present invention provides a process for producing an optically active allene represented by formula (1):



wherein R^2 and R^3 are different and each represents a hydrogen atom, an optionally substituted C_{1-20} alkyl group or an optionally substituted C_{6-20} aryl group, and R^4 represents an acyl group, which comprises reacting an allene derivative represented by formula (2):



wherein R^1 represents a hydrogen atom or an optionally substituted acyl group and R^2 and R^3 have the same meaning as defined above, with an acylating agent having an acyl group represented by R^4 when both R^1 's are each a hydrogen atom or with water when both R^1 's are each an acyl group represented by R^4 , in the presence of an enzyme catalyst.

15 According to this production process, an optically active allene can be produced efficiently and enantioselectively from an allene derivative having a symmetrical structure.